

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/891,654	06/27/2001	Takashi Maruko	Q65201	5513	
7:	590 08/15/2003				
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213			EXAMI	EXAMINER	
			DUONG, THANH P		
•			ART UNIT	PAPER NUMBER	
•			3711	10	
•			DATE MAILED: 08/15/2003	l V	

Please find below and/or attached an Office communication concerning this application or proceeding.

	_		9			
	Application No.	Applicant(s)	V			
Office Action Summany	09/891,654	MARUKO ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication and	Tom P Duong	3711				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the d	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	86(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 19 h	<u>⁄lay 2003</u> .		·			
2a) This action is FINAL . 2b) ⊠ Thi	is action is non-final.					
3) Since this application is in condition for allowa						
closed in accordance with the practice under <i>I</i> Disposition of Claims	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
4) Claim(s) 1-5 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) accep	·					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action. 12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120	arriirer.					
13) Acknowledgment is made of a claim for foreign	priority under 25 LLC C 5 440/a	\				
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 0.5.C. § 119(a	<i>j</i> -(a) or (i).				
	s have been received					
 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No 						
Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bur * See the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).	_				
14) ☐ Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e) (to a provisional application)).			
 a) ☐ The translation of the foreign language profile 15)☐ Acknowledgment is made of a claim for domestic 						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Informal F	r (PTO-413) Paper No(s) Patent Application (PTO-152)				
.S. Patent and Trademark Office						

U.S. Patent and Trademark Offic PTO-326 (Rev. 04-01) Application/Control Number: 09/891,654

Art Unit: 3711

DETAILED ACTION

In view of the appeal brief filed on 5/19/03, PROSECUTION IS HEREBY REOPENED. The final rejection dated on 11/5/02 is withdrawn and a new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1-3 and 5 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Shimosaka et al. (5,816,937).

Application/Control Number: 09/891,654

Art Unit: 3711

Regarding claims 1 and 2, Shimosaka discloses a multi-layer golf ball comprising of a solid core (1), an intermediate layer (4) with thickness G1 of 1.7-2.5 mm (Col. 3, lines 13-15) and Shore D hardness of 61-66 (Col. 3, lines 27-31) and a outermost layer 5 with thickness G2 of 0.02-1.1mm (Col. 3, lines 39-43) and Shore D hardness of less than 55, preferably 34-52 (Col. 2, lines 37-39). Shimosaka does not disclose the optimized formula: $[G_1/(G_1 + G_2)] \times 100 => 45\%$; however, selecting a given G1 value of 2.0 mm and G2 value of 0.5 mm from the above range and substituting these values into the above formula will yield 80%, which is greater than or equal to 45%. Regarding claim 3, Shimosaka discloses core distortion or deflection of 3.5-4.5 mm under an applied load of 100Kg. (Col. 4, lines 46-50). Regarding claim 5, Shimosaka discloses the cover material is made of polyurethane (Col. 3, lines 40-44).

2. Claims 1-2 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Sullivan et al. (5,803,831). Regarding claims 1 and 2, Sullivan discloses a multi-layer golf ball comprising of a solid core (10), an inner cover layer (14), constitutes an intermediate layer, with thickness G1 of 0.01-0.1 inch (0.254 - 2.54 mm), (Col. 6, lines 57-60) and Shore D hardness of 60 or more (Col. 6, lines 65-67) and an outer cover layer (16) with thickness G2 of 0.01-0.1 inch (0.254 - 2.54 mm), (Col. 15, lines 30-34) and Shore D hardness of 55 or less, preferably 50 or less (Col. 15, lines 37-39). Sullivan does not disclose the optimized formula: $[G_1/(G_1 + G_2)] \times 100 => 45\%$; however, selecting a given G1 value of 2.0 mm

Application/Control Number: 09/891,654

Art Unit: 3711

and G2 value of 0.5 mm from the above range and substituting these values into the above formula will yield 80%, which is greater than or equal to 45%.

Page 4

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over the references applied in claim 1 above, in view of Ichikawa et al. (5,872,185). Shimosaka does not disclose multi-piece solid golf ball of claim 1 wherein said cover is formed of a cover material having a melt index of at least 3.0 dg/min at 190° C. Ichikawa teaches a the resin blend must have a melt index of 3 dg/min (Col. 4, lines 24-30) at 190° to ensure molding of the golf balls. Thus, it would have been obvious in view of Ichikawa to one having ordinary skill in the art to control the melt index of at least 3.0 dg/min as taught by Ichikawa in fabricating the golf ball of Shimosaka in order to ensure proper molding. In addition, Official Notice is taken that it is conventional during the molding process to control the melt-flow index at least 1.0 or greater to aid in molding and polymer processing, and it would have been obvious to do so here to ensure proper molding.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tom P Duong whose telephone number is (703) 305-4559. The examiner can normally be reached on 8:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Sewell can be reached on (703) 308-2126. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 873-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1148.

Tom Duong August 1, 2003 SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700